

ADVANCED WORKSHOP ON **STEEL DESIGN**

Date: 14th - 15th June 2019
Venue: Victor Menezes Convention Centre, IIT Bombay, Mumbai



ORGANIZED BY



Consulting Engineers Association of India
Western Region Centre



INSDAG
Kolkata



Centre for Excellence in Steel Technology
Indian Institute of Technology, Bombay

ABOUT THE COURSE

There has been a demand for another workshop on Advanced Steel Design dealing with topical issues, as was done for the first two in 2012 and 2015, both of which received very good responses.

CEAI-WRC, INSDAG and COEST at IIT Bombay have therefore, based on the feedback, deliberated and put together a sequel to the first two.

For the benefit of those who missed the earlier two, there will be a quick recap of some basic principles to refresh and bring everyone on par.

One of the main topics, in view of the numerous **FIRE** incidences that have occurred in urban and industrial areas, would be the design of steel structures treating fire as a design load on the structure.

The second main topic would be relating to **SEISMIC** forces, since analysis and design to deal with those forces have become more intensive. Hence those aspects along with the **JOINT DESIGNS** will be other thrust areas.

A third topic of great interest would be **WELDING**, which drew tremendous attention last time, and is a major connection procedure.

Presentations will be made by faculty from the IIT Bombay, IIT Madras, CBRI Roorkee, INSDAG and Consulting Organisations.

As Engineers, we need to remind ourselves that, while Engineers are the sine qua non resources for all projects, it is also the Engineers who enable the development and growth of the nation and are involved in innovations day in and day out. Therefore it is necessary for the Engineers to keep abreast with the latest developments, so that they can carry out, check and certify that the designs and constructions have been done as per the state-of-the-art standards and practices.



About Consulting Engineers' Association of India (CEAI)

www.ceai.org.in



Consulting Engineers Association of India (CEAI) is the apex body of consulting engineers in India. CEAI represents the Indian Engineering Consultancy profession at the International Federation of Consulting Engineers (FIDIC). CEAI has, behind it, around 60 years of accumulated knowledge and experience. CEAI Membership comprises of practicing consultants, private and public sector firms engaged in the entire range of engineering consultancy services.

CEAI looks after the interest and enhances the status of the consulting engineering profession in India and is equally concerned with quality development, productivity enhancement and promotion of ethical practices. CEAI has established linkages and strong bonds with its counter parts in various countries and is a staunch advocate of global networking and co-operation.

About Institute for Steel Development & Growth (INSDAG)

www.steel-insdag.org



Institute for Steel Development & Growth (INSDAG) is a member based non profit making organization. The Institute primarily works towards the development of advanced design methodologies for expanding application of steel in different segments of industry, upgrades skills and knowledge of technical personnel through training, creates awareness amongst potential users, communicates the benefits of steel vis-à-vis other competitive materials, etc.

INSDAG has taken up the responsibility to facilitate revision of various related codes with active participation from IIT, Chennai, SERC, ANNA University and a number of Consultants/ Fabricators/ Prime Contractors, etc.

About Centre for Excellence in Steel Technology (CoEST) at IIT Bombay

www.coest.iitb.ac.in



CoEST is a joint initiative by the Ministry of Steel, Government of India and the Indian Institute of Technology Bombay hosted by the Metallurgical Engineering & Materials Science Department to cater to the needs of the entire Indian Iron & Steel producers and user industries. It has partnership with JSW Steel and Tata Steel. The focus areas being Process metallurgy, Microstructure and properties, Corrosion and protection and Steel intensive buildings.

WHO SHOULD ATTEND?

All those involved in Structural Steel Engineering Design, Fabrication & Erection:

- ♦ Engineering Consultants, Structural Steel Designers
- ♦ Project Managers
- ♦ Fabricators & Erectors
- ♦ Infrastructure organizations
- ♦ Engineers in Government/ Semi-Government/ Local Bodies/ Authorities
- ♦ Faculty of Engineering Colleges and Technical Institution

REGISTRATION DETAILS

Course Fee per participant for 2 days, all inclusive:

Member	₹ 8,000	Non-Member	₹ 9,000	Students	₹ 6,000
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GST will be charged extra as applicable.

- ♦ Incentive: 5% reduction in fees if there are 5 or more participants from one organization.
- ♦ Cheque/ DD should be drawn in favour of "Consulting Engineers Association of India - Western Region Centre" payable at Mumbai.



PROGRAMME

Date: 14-15 June 2019

Venue: Victor Menezes Convention Centre, IIT Bombay

DAY 1		DAY 2	
08.30 - 09.00	Registration & Light Breakfast	08.30 - 09.00	Light Breakfast
09.00 - 09.30	Inaugural Session	09.00 - 10.00	Advances in Design under Seismic Conditions Prof. Meera Raghunandan, IIT Bombay
09.30 - 10.15	Behaviour of Structures (under different forces) Prof. Siddhartha Ghosh, IIT Bombay	10.00 - 11.00	Osdag- Connection Design Software Prof. Siddhartha Ghosh, IIT Bombay
10:15 - 11:00	Metallurgy of Steel & Carbon Footprint of Steel Structures TBA	11.00 - 11.15	Tea Break
11.00 - 11.15	Tea Break	11.15 - 12.15	Welding Procedures Mr. Jeffrey Nambiar Director, Chempro Expertise Pvt. Ltd.
11:15 - 12:00	Basics and Recap of Limit State Design Dr. Harshavardhan Subbarao	12.15 - 13.00	Case Study Mr. M M Ghosh, INSDAG
12.00 - 13.00	Design for Fire as a Structural Load on the Structure Prof. S R Satishkumar, IIT Madras	13.00 - 14.00	Lunch
13.00 - 14.00	Lunch	14.00 - 15.00	Do's & Don'ts in Steel Member and Connection Design - Learning from Mistakes Dr. S R Satishkumar, IIT Madras
14.00 - 15.00	Design as per American Institute of Steel Construction (AISC) Mr. Charles Simoes Former Associate Director, Aker Solutions	15.00 - 16.00	Connections for Seismic Conditions Dr. Ajay B Yeri Design Excellence (India) Pvt. Ltd.
15.00 - 16.00	Fire Resistant Design of Steel Structures Dr. Suvir Singh, Chief Scientist & Group Leader Fire Engineering Group, CBRI, Roorkee	16.00 - 16.15	Tea Break
16.00 - 16.15	Tea Break	16.15 - 17.00	Open Discussions
16:15 - 16:30	TBA	17.00 - 17.30	Filling of Feedback forms by Participants
16.30 - 17.30	Open Discussions	17.30 - 17.45	Vote of Thanks Mr. Jeffrey Nambiar Hon. Secretary cum Treasurer, CEAI-WRC
		17.45 - 18.00	Distribution of Certificates & Closing of the Course

- All participants are requested to attend till the end
- Certificate will be issued to those who attend the entire course.
- Participants are advised to bring their copy of IS 800:2007. The code will NOT be distributed in the programme.

REGISTRATION FORM

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Western Region Centre



INSDAG
Kolkata



Centre for Excellence in Steel Technology
Indian Institute of Technology, Bombay

Name (in CAPS): _____ Sex: M / F _____

Designation: _____ Organization: _____

Contact Address: _____

City: _____ Pin: _____ Ph: _____

Mob: _____ Email: _____ Meal Preference: V/NV _____

Details of Cheque/ Draft/ NEFT: _____ Amount: Rs: _____

Date: _____ Signature of the Applicant: _____

- ♦ Course Fee per participant for 2 days, all inclusive: **Member ₹ 8,000/-; Non-Member ₹ 9,000/-; Students ₹ 6,000/-.** GST will be charged extra as applicable.
- ♦ Incentive: 5% reduction in fees if there are 5 or more participants from one organization.
- ♦ It is a Non Residential course. ♦ Certificate will be issued to those who attend the entire course.
- ♦ Cheque/ DD should be drawn in favour of "Consulting Engineers Association of India - Western Region Centre" payable at Mumbai.

Payment can also be made by bank transfer:

Beneficiary: Consulting Engineers Association of India - Western Region Centre payable at Mumbai

Account No.: 038602000022706 | Name of Bank: Indian Overseas Bank | Branch Code: 000386

Address of Branch: Nandjyot Industrial Estate Branch, Near MTNL, Andheri Kurla Road, Sakinaka, Mumbai - 400 072.

IFS Code: IOBA0000386 | MICR Code: 4000 20032 | GSTIN: 07AAATC5274E1ZX | PAN: AAATC5274E

Mail this form to:

CEAI - Western Region Centre

c/o Chempro Expertise Pvt. Ltd.,

203, Trade Corner, Saki Naka, Andheri (East), Mumbai - 400072.

Contact: **Mr. Jeffrey Nambiar**, Hon. Secretary & Treasurer

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